"EXFOR to R33" on NDS Web

V.Zerkin, IAEA-NDS

Second Research Co-ordination Meeting on

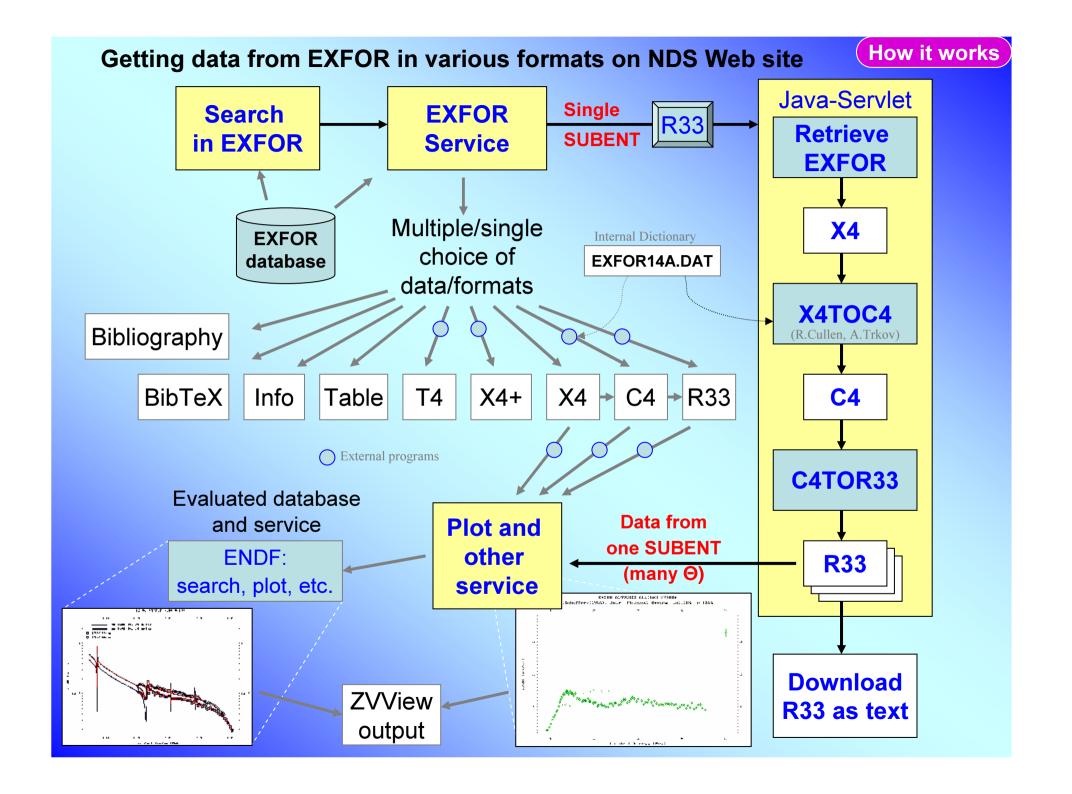
Development of a Reference Database for Ion Beam Analysis

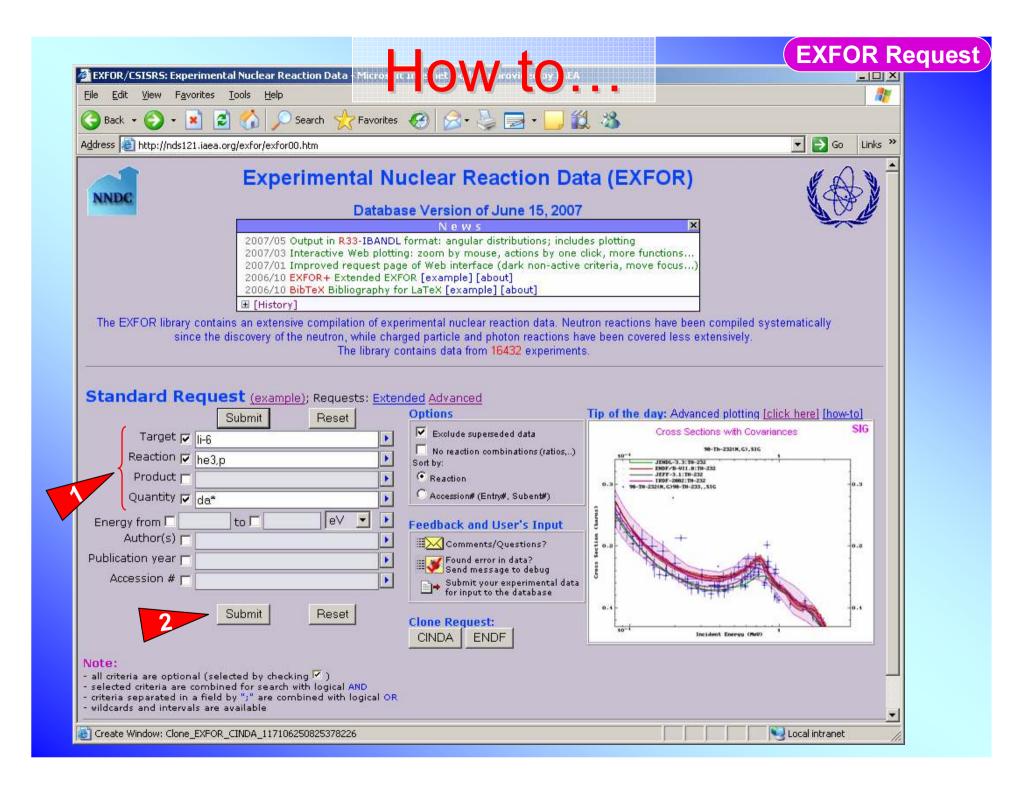
IAEA Headquarters, Vienna, Austria

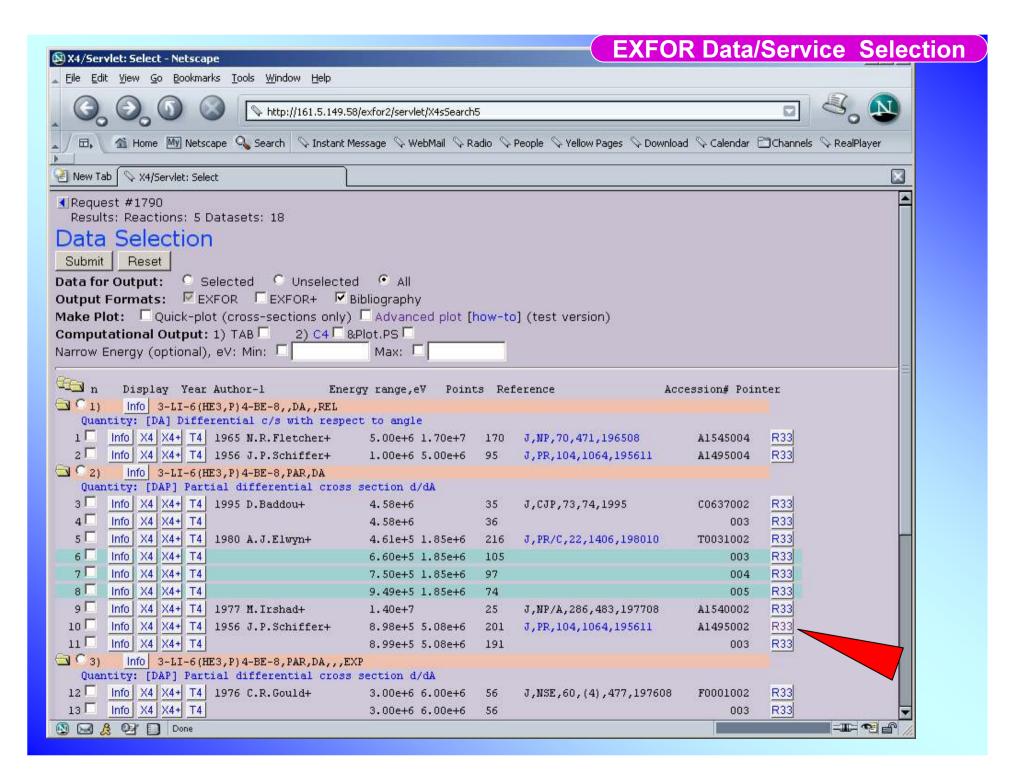
18-21 June 2007

GOAL

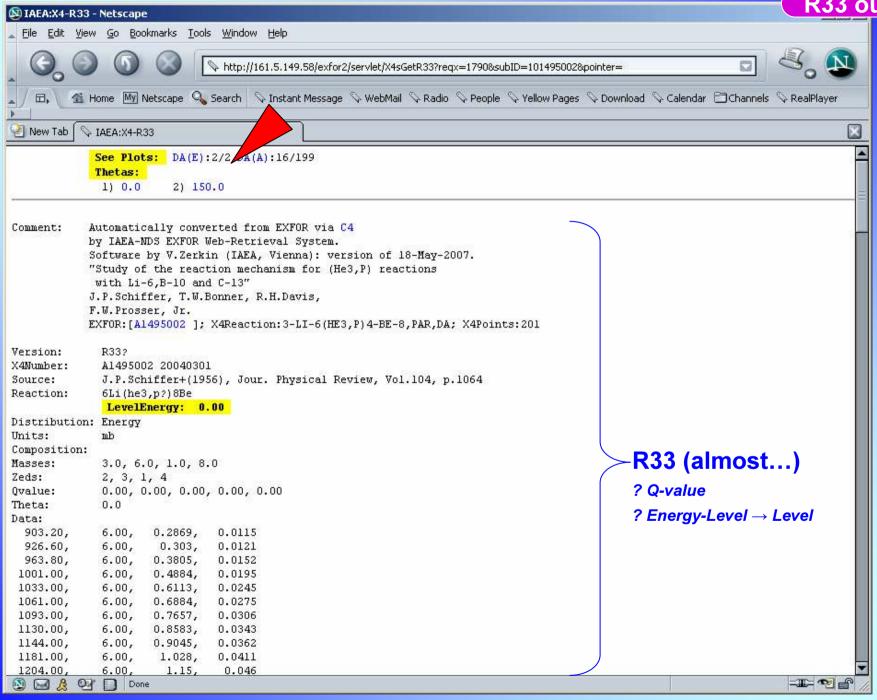
✓ To provide access to EXFOR data in R33 ← format via Internet

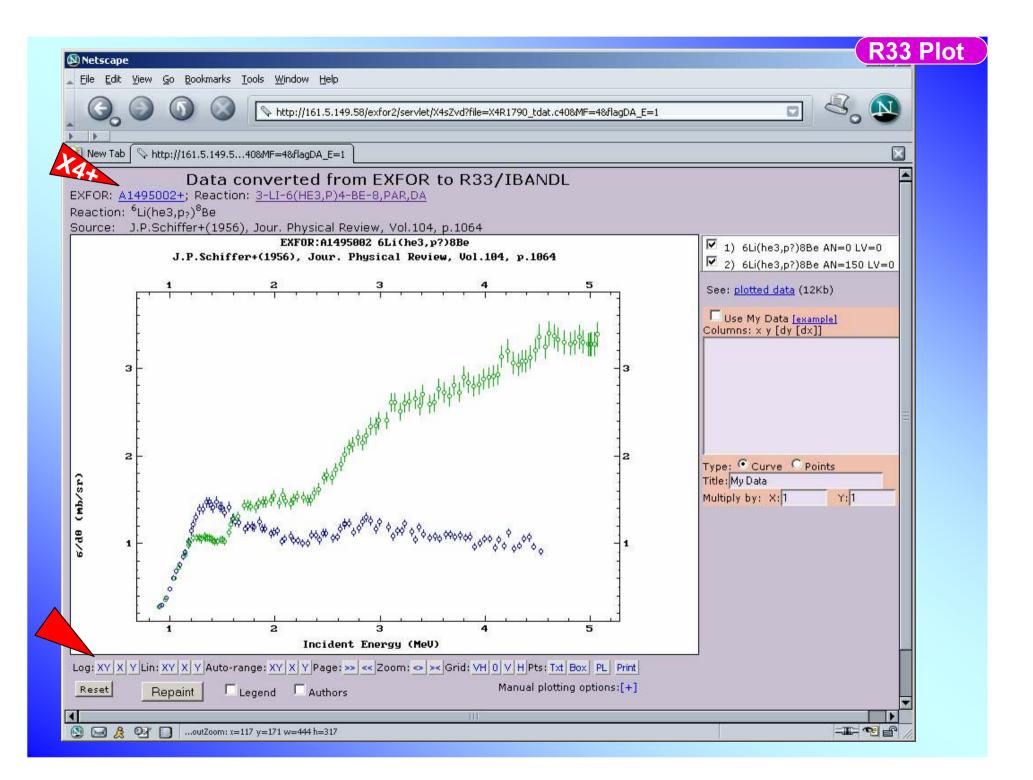




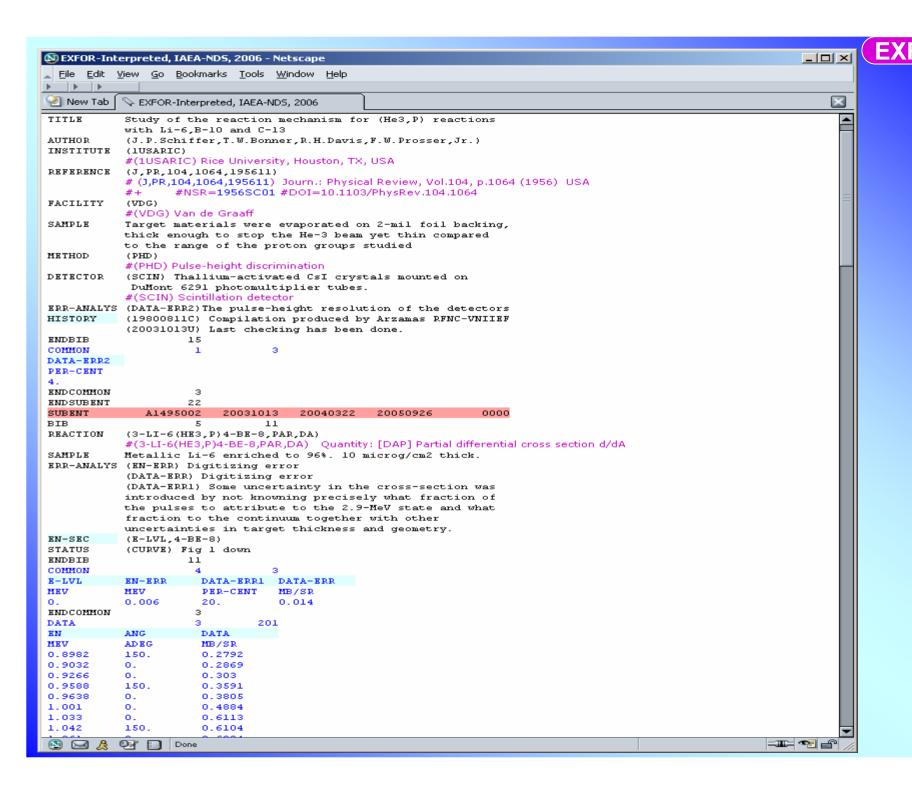


R33 output



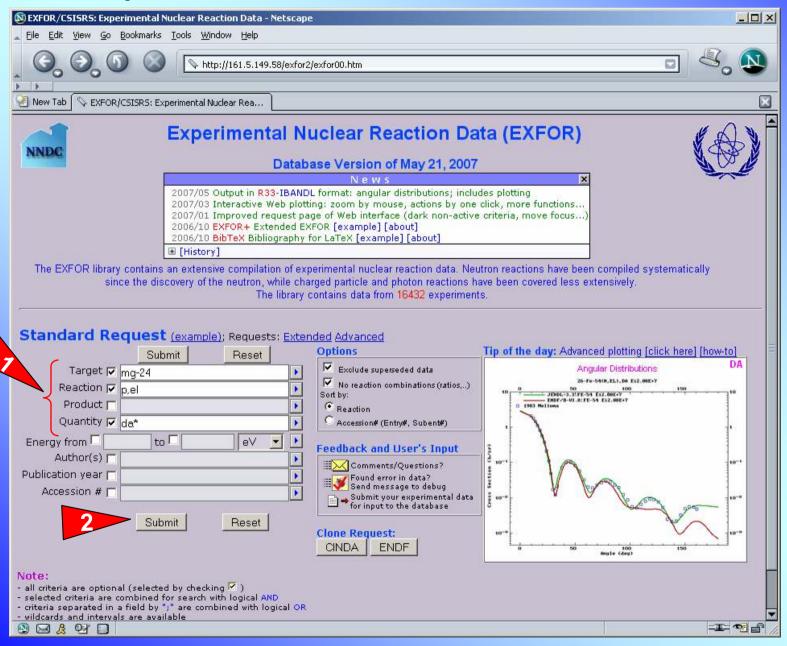


R33 Plot Interactions (Netscape File Edit View Go Bookmarks Tools Window Help http://161.5.149.58/exfor2/servlet/X4sZvd?file=X4R1790_tdat.c40&MF=4&flagDA_E=1 New Tab \(\sigma\) http://161.5.149.5...40&MF=4&flagDA_E=1 Data converted from EXFOR to R33/IBANDL EXFOR: A1495002+; Reaction: 3-LI-6(HE3,P)4-BE-8,PAR,DA Reaction: 6Li(he3,p>)8Be Source: J.P.Schiffer+(1956), Jour. Physical Review, Vol.104, p.1064 √
1) 6Li(he3,p?)8Be AN=0 LN EXFOR: A1495002 6Li(he3,p?)8Be ☑ 2) 6Li(he3,p?)8Be AN=150 J.P.Schiffer+(1956), Jour. Physical Review, Vol.104, p.1064 1.2 1.3 See: plotted data (12Kb) 6Li(he3,p?)8Be AN=0 LV=0 6Li(he3,p?)8Be AN=150 LV=0 Use My Data [example] Columns: x y [dy [dx]] 1.5 1.5 1.479 1.475 1.396 1.398 1.4 1.4 1.304 1.3 1.3 Type: Curve Points 1.227 Title: My Data Multiply by: X:1 Y: 1 1.2 1.2 6/d8 (Mb/sr) 1.1 1.1 1.067 1.0691.069 1.0 1.0 0.9 0.9 1.2 1.3 1.4 Incident Energy (MeV) Log: XY X Y Lin: XY X Y Auto-range: XY X Y Page: >> << | Zoom: <> >< Grid: VH 0 V H Pts: Txt Box PL Print

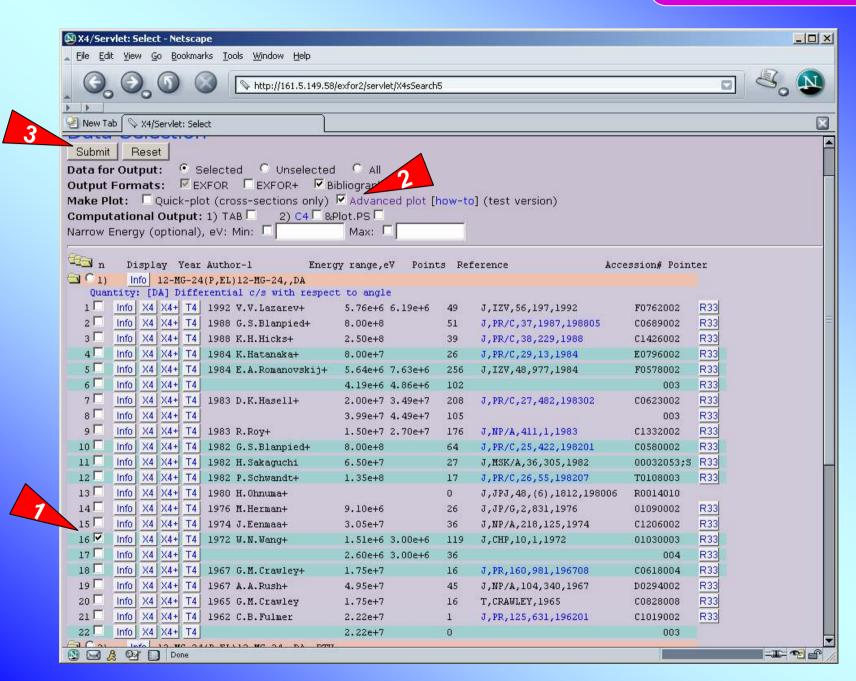


Extended service

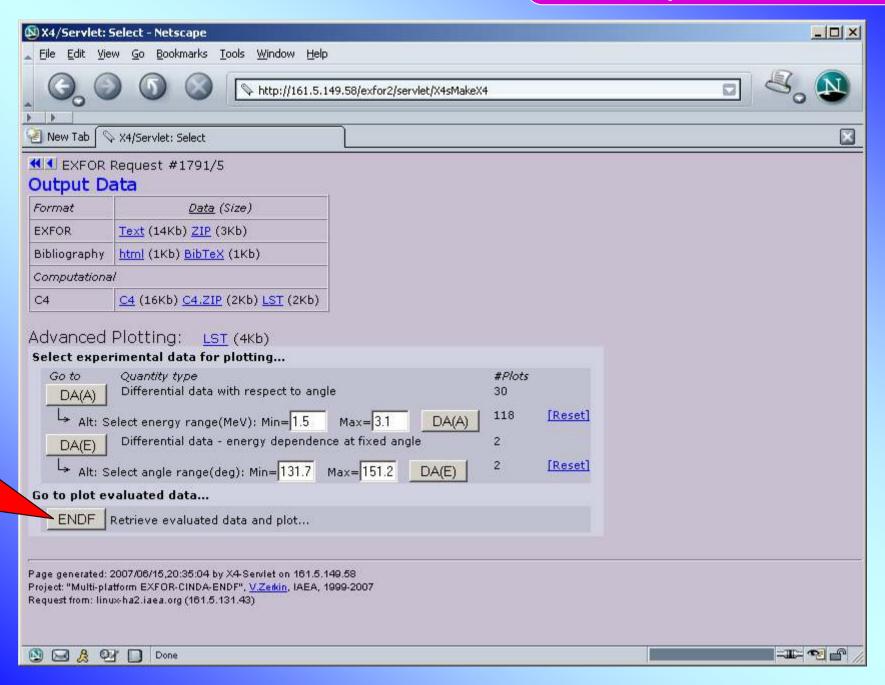
Experimental vs. evaluated data



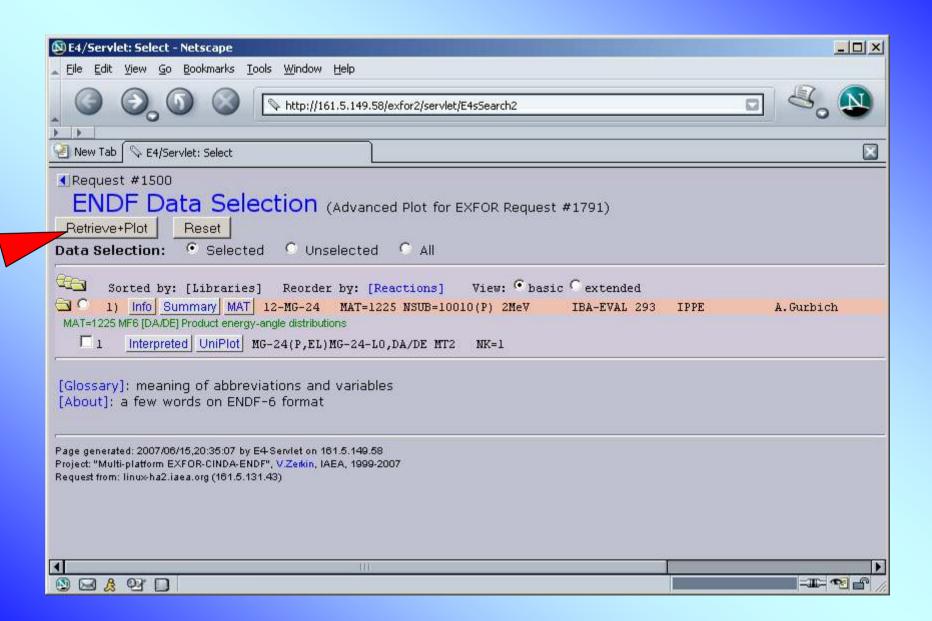
EXFOR: Advanced plot

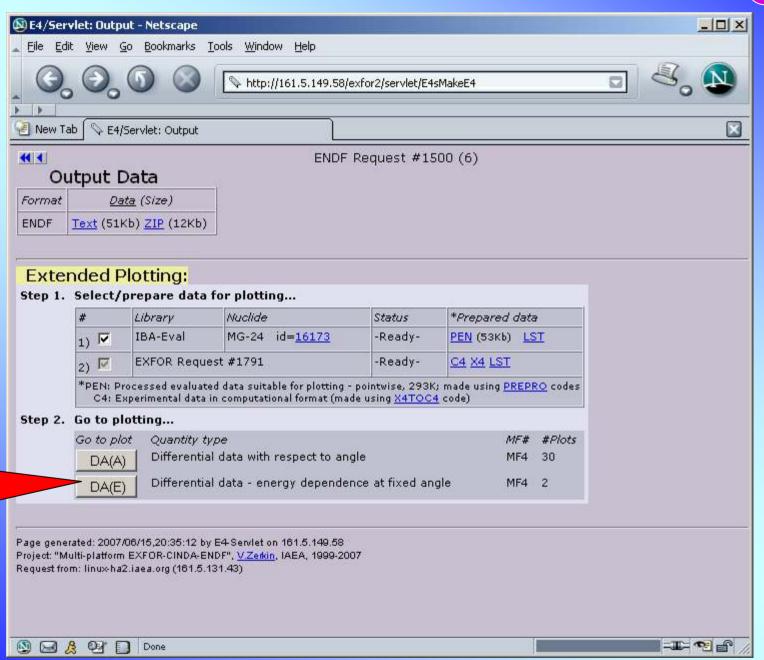


EXFOR: request evaluated data

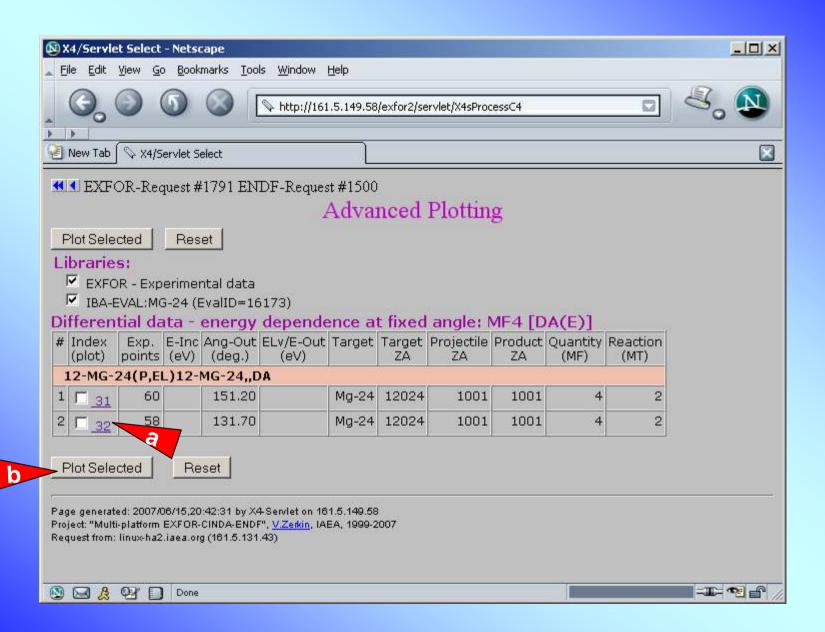


Retrieve and plot both: experimental and evaluated data





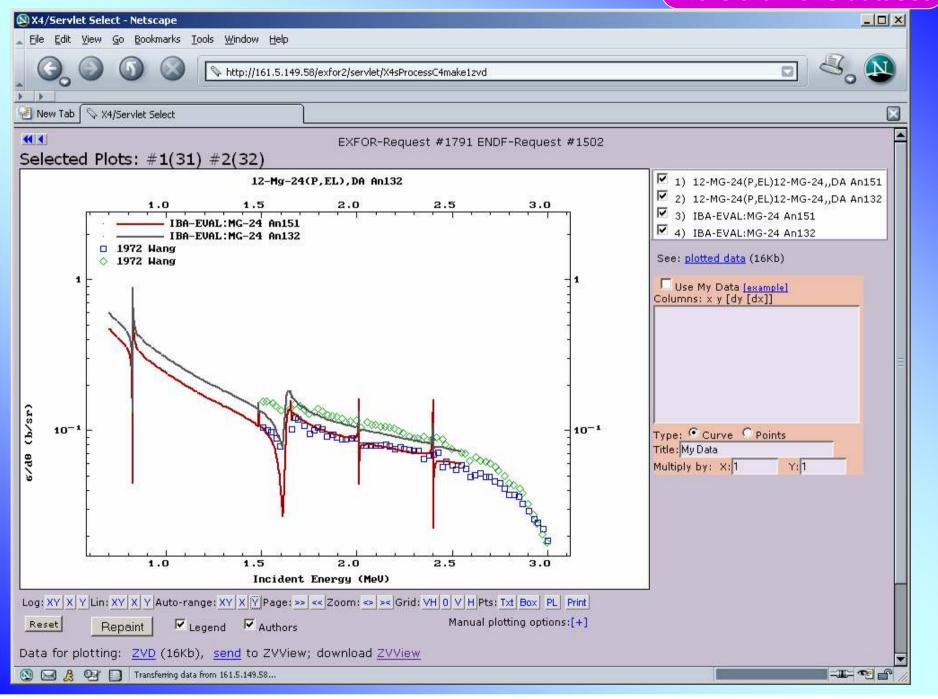
Select datasets for plotting



Manipulate picture X4/Serviet Select - Netscape File Edit View Go Bookmarks Tools Window Help http://161.5.149.58/exfor2/servlet/X4sProcessC4make1zvd?x4Reg=1791&e4Reg=1500&ind=32&chkExfor=Exfor= New Tab \(\infty \text{ X4/Servlet Select} \) 44 4 EXFOR-Request #1791 ENDF-Request #1500 Plot #32 √
1) 12-MG-24(P,EL)12-MG-24 12-Mg-24(P,EL),DA An132 ☑ 2) IBA-EVAL:MG-24 An132 1.0 3.0 2.0 2.5 1.5 IBA-EVAL:MG-24 An132 See: plotted data (8Kb) □ 1972 Wang Use My Data [example]
Columns: x y [dy [dx]] Type: Curve Points 10-1 10-1 Title: My Data Multiply by: X:1 Y: 1 1.0 2.5 3.0 Incident Energy (MeV) tog: XY X Y Lin: XY X Y Auto-range: XY X Y Page: >> << Zoom: <> >< Grid: VH 0 V H Pts: Txt Box PL Print Manual plotting options:[+] V Legend ✓ Authors Reset Repaint

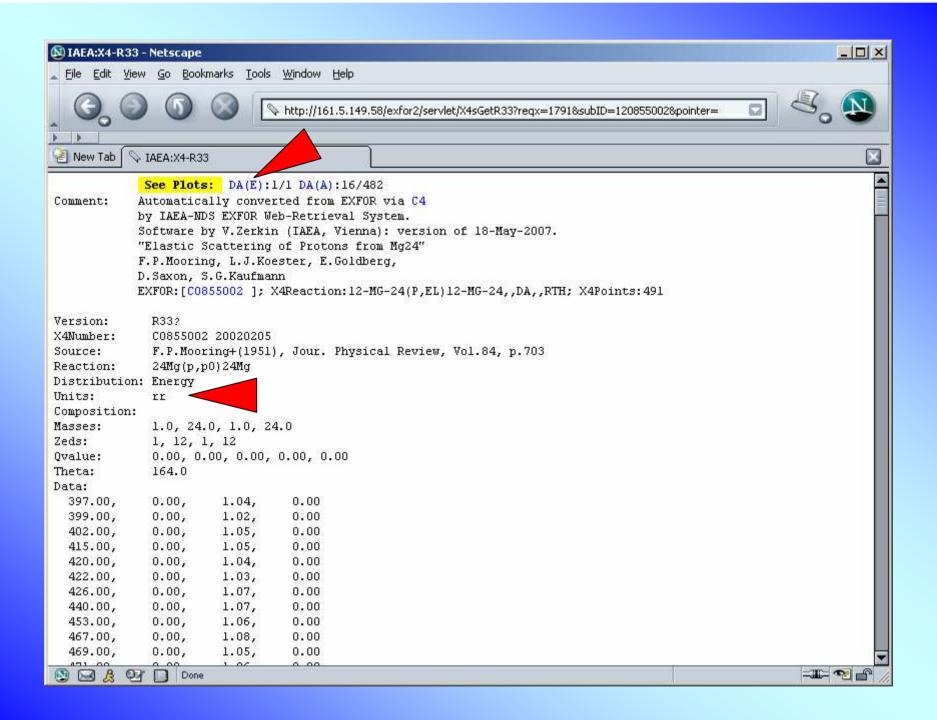
Transferring data from 161,5.149,58...

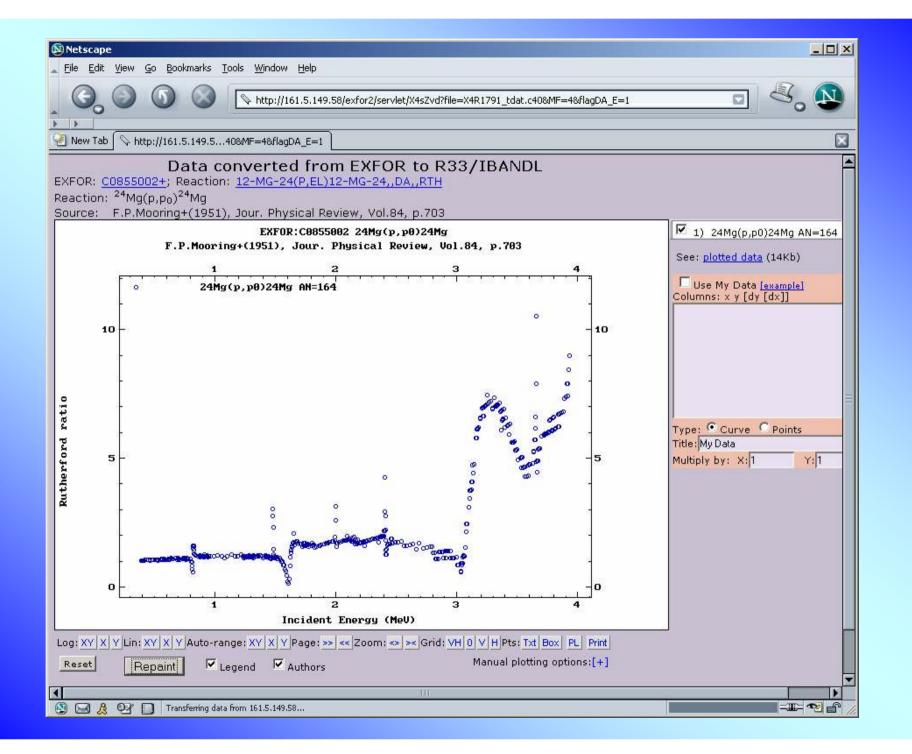
More than one dataset



Rutherford Ratio

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File Edit <u>V</u> iew <u>G</u> o Bookmarks <u>T</u> ools <u>W</u> indow <u>H</u> elp													
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9 □	Info	3/4	X4+	T4	1000	R.Roy+	3.55cm	1 0 70-17	100	T WE 28 411 1 1000	000	Daal	
10 [-		X4+	-		G.S.Blanpied+	8.00e+8	2.70e+7	176 64	J,NP/A,411,1,1983 J,PR/C,25,422,198201	C1332002 C0580002	R33	
11	Info		X4+	_		H. Sakaquchi	6.50e+3		27		00032053;\$		
12	Info	-	X4+	T4		P.Schwandt+	1.35e+8		17	J,MSK/A,36,305,1982 J,PR/C,26,55,198207	T0108003	R33	
13 🗆	Info	S. Address of the London	X4+	-	77177	H. Ohnuma+	1.336+0	,	0	J,JPJ,48,(6),1812,198006	R0014010	KSS	
14 🗆	Info	0	X4+	-		M.Herman+	9.10e+6	:	26	J,JP/G,2,831,1976	01090002	R33	
15 🗆	Info		X4+	T4		J.Eenmaa+	3.05e+3		36	J,NP/A,218,125,1974	C1206002	R33	ш
16 🔽		-	X4+	Service Co.		W.N.Wang+		3.00e+6	119	J,CHP,10,1,1972	01030003	R33	ш
17 □			X4+		1572	w.w.wang+		3.00e+6	36	0,011,10,1,1572	004	R33	ш
18 🗆	Info		X4+	-	1967	G.M.Crawley+	1.75e+7		16	J,PR,160,981,196708	C0618004	R33	ш
19 □	Info	-	X4+	_		A.A.Rush+	4.95e+7		45	J,NP/A,104,340,1967	D0294002	R33	H
20 □	Info	-	X4+	-	72031	G.M.Crawley	1.75e+7		16	T,CRAWLEY,1965	C0828008	R33	
21 🗆	Info	-	X4+	-		C.B.Fulmer	2.22e+7		1	J,PR,125,631,196201	C1019002	R33	ш
22 🗆			X4+		1502	O.D. Talmel	2.22e+7		0	0,111,120,001,130201	003	1100	
(C 2)	-		1	Name of Street	P.EL)12-MG-24,,DA,,F			- 12 E				
Quantity: [DA] Differential cs d/dA rel.to Rutherf.scatt.													
23 □	Info	X4	X4+	T4	1986	M. Pignanelli+	3.50e+7	,	30	J,PR/C,33,40,1986	F0256004	R33	
24 □	Info	X4	X4+	T4	1980	H.Ohnuma+	5.19e+7	1	23	J,JPJ,48,(6),1812,198006	E0120007	R33	
25 □	Info	X4	X4+	T4	1951	F.P.Mooring+	3.97e+5	3.94e+6	491	J,PR,84,703,1951	C0855002	R33	
26 □	Info	X4	X4+	T4			7.92e+5	8.56e+5	49		003	R33	
27 □	Info	X4	X4+	T4			1.47e+6	1.67e+6	60		004	R33	
28 □	Info	X4	X4+	T4			1.99e+6	2.03e+6	37		005	R33	
29 □	Info	X4	X4+	T4			2.39e+6	2.43e+6	37		006	R33	
(3) Info 12-MG-24(P,EL)12-MG-24,PAR,DA													
Quantity: [DAP] Partial differential cross section d/dA													
30 🗆		and the same	Call Indoor		1991	R.M.Prior+	3.99e+6	6.10e+6	1462	J,NP/A,533,411,199110	C0075002	R33	
	3 0		Do	ne							-44	- 6-1 B	110





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